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## LEADERSHIP

- **Dean**
  - Natalie D. Eddington, PhD, BSP

- **Associate Dean for Administration and Finance**
  - William Cooper, MBA

- **Associate Dean for Curriculum, Instructional Design and Technology**
  - Raymond Love, PharmD, BCPP, FASHP

- **Associate Dean for Student Affairs**
  - Jill Morgan, PharmD, BCPS

- **Associate Dean for Academic Affairs**
  - David Roffman, PharmD, BCPS

- **Assistant Dean at the Universities at Shady Grove**
  - Heather Brennan Congdon, PharmD, CACP, CDE

- **Assistant Dean for Academic Affairs**
  - Lisa Lebovitz, JD

- **Assistant Dean for Instructional Design and Technology**
  - Shannon Tucker, MS

- **Chair, Department of Pharmaceutical Sciences**
  - Andrew Coop, PhD

- **Chair, Department of Pharmacy Practice and Science**
  - Magaly Rodriguez de Bittner, PharmD, BCPS, CDE

- **Chair, Department of Pharmaceutical Health Services Research**
  - Ilene Zuckerman, PharmD, PhD

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## CENTERS

- **Center for Drug Safety**
  - Sheila Weiss Smith, PhD, Director

- **Center for Innovative Pharmacy Solutions**
  - Magaly Rodriguez de Bittner, PharmD, BCPS, CDE, Interim Director

- **Center for Nanomedicine and Cellular Delivery**
  - Peter Swaan, PhD, Director
  - Anjan Nan, PhD, Co-Director

- **Center on Drugs and Public Policy**
  - Francis Palumbo, PhD, JD, Executive Director

- **Computer-Aided Drug Design Center**
  - Alexander MacKerell Jr., PhD, Director

- **Maryland Poison Center**
  - Bruce Anderson, PharmD, Director

- **Peter Lamy Center for Drug Therapy and Aging**
  - Bruce Stuart, PhD, Executive Director

- **Pharmaceutical Research Computing center**
  - Ilene Zuckerman, PharmD, PhD, Executive Director
The 2007-2008 academic year, represented in this Annual Report, was one of opportunity, change, and achievement for the University of Maryland School of Pharmacy. Our faculty, staff, and students were recognized throughout the year with numerous professional awards, appointments, and grants and contracts that reflect their prominence as world-class educators, practitioners, researchers, and community volunteers. Through their efforts, the School of Pharmacy continues to lay a “Foundation for the Future” of our School and our profession.

The past year also brought programmatic highlights and major developments such as:

• the awarding of $62 million from the state of Maryland for the construction of Pharmacy Hall Addition, which began in June and is on track for completion in the fall of 2010
• a 14 percent increase in extramural research funding to more than $17 million, with a ranking of 17th nationally in terms of funding from the National Institutes of Health
• the recruitment of nine new faculty members to further enhance our teaching, practice, and research enterprises
• the securing of $11 million in verbal commitments to the School’s capital campaign

This list and the highlights contained in these pages are just a sampling of all the School accomplished. They provide wonderful momentum for us to aim even higher in the coming years.

The collective investment of our alumni and friends in the work of the School is a vital component of that momentum. It is your support through both fiscal and volunteer efforts that enables us to provide professional experiences and training, as well as scholarships, endowments, and fellowships for our students and faculty in a challenging economic environment. And it is your support that pushes us further in the lab, the classroom, and the clinic as we strive to graduate the most prepared pharmacists and pharmaceutical scientists and researchers we possibly can.

As an alumna, I am proud to serve the School of Pharmacy as dean and to lead an extremely dedicated group of faculty and staff whose efforts ensure the continuing success of our School. In reading this report, you surely will be proud, too. I extend my thanks to all of our alumni and friends for the role they play in securing the future of the School of Pharmacy.

That’s it for now.

Natalie D. Eddington, PhD ’89, BSP
Dean
KEY FACTS

THE UNIVERSITY OF MARYLAND SCHOOL OF PHARMACY

PHD PROGRAMS

89 Total enrollment

Department of Pharmaceutical Health Services Research

26 Students
73/27% Female/male

Department of Pharmaceutical Sciences

63 Students
62/38% Female/male

SCHOLARLY ACTIVITY

92 Principal investigators
11 Published books
290 Refereed works published
33 Non-refereed works published
411 Papers presented

PROFESSIONAL SERVICES

36 Review panels
693 Manuscripts read/reviewed
171 Editors/Associate editors
79 Officeholders
327 Departmental committees
626 Total days in public service

EMPLOYMENT SURVEYS*

PharmD Graduates/Commitment Type

47% Community/chain
29% Residency/fellowship
28% Hospital
7% Community/independent
7% Pharmaceutical industry
2% Graduate school
6% Public health service
3% Other

*Total exceeds 100 percent because students may be working in more than one area.

ACADEMIC PROGRAMS

PHARMD PROGRAM

481 Total enrollment
160 Entering class
77% With baccalaureate
67/33% Female/male
20-44 Age range
25 Average age
32% Caucasian
40% Asian
11% African-American
1% Hispanic
6% International
10% No response

FACULTY

68 Full-time faculty
69 Adjunct faculty
525 Preceptor faculty

STAFF

73 Administrative, development, facilities, IT, poison specialists, student services, and special support
151 Technical, research staff, and teaching assistants

ACADEMIC TRAINING

37 Postdoctoral fellows
8 Residents

53/47% Male/female

THE UNIVERSITY OF MARYLAND SCHOOL OF PHARMACY

2012-2013

www.pharmacy.umaryland.edu
FINANCIALS
SOURCES OF OPERATING REVENUES SUPPORTING THE SCHOOL

FISCAL YEAR 2007-2008
TOTAL SOURCE OF FUNDS $44,953,684

- Net General Appropriation and Tuition and Fees: $17,279,538
- Federal Funds: $413,316
- Campus-Funded Fringe Benefits: $2,921,060
- Scholarships, Fellowships, and Endowments: $1,267,949
- Special Growth Initiative Funds: $509,210
- Designated Research Initiative Funds: $1,000,000
- Grants and Contract Awards: $17,384,252
- Gifts: $3,296,024
- Auxiliary and Misc.: $1,882,335
- Auxiliary and Misc. Special Growth: $1,000,000
- Campus-Funded Fringe Benefits: $1,114,734

FISCAL YEAR 2006-2007
TOTAL SOURCE OF FUNDS $36,850,505

- Net General Appropriation and Tuition and Fees: $12,422,224
- Federal Funds: $393,634
- Campus-Funded Fringe Benefits: $2,675,405
- Scholarships, Fellowships, and Endowments: $1,114,734
- Special Growth Initiative Funds: $613,297
- Designated Research Initiative Funds: $1,000,000
- Grants and Contract Awards: $15,694,148
- Gifts: $955,971
- Auxiliary and Misc.: $1,981,092

This report is an unaudited presentation of revenues supporting the School.
## DEPARTMENT OF PHARMACEUTICAL HEALTH SERVICES RESEARCH

### Project Investigator Rank/Title | Project Title | Sponsor Name | Project Total
---|---|---|---
Amy Davidoff | Research Assistant Professor | Has Medicare Part D Improved Beneficiary Health? | Novartis/Ciba-Geigy Corp. | $120,000
C. Daniel Mullins | Professor | Comprehensive NCMHD-Research Center of Excellence (P-60) at the University of Maryland | National Center on Minority Health and Health Disparities | $153,797
C. Daniel Mullins | Professor | Women’s Health NSAID and CV Risk Fellowship | Pfizer Inc. | $32,143
C. Daniel Mullins | Professor | Outcomes, Quality of Care, and Costs of Chemotherapy in Prostate and Lung Cancer | Sanofi-Aventis U.S. Inc. | $130,000
C. Daniel Mullins | Professor | Use and Outcomes of Novel Chemotherapeutic Agents in Colorectal Cancer | Sanofi-Aventis U.S. Inc. | $175,708

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### C. DANIEL MULLINS
PROFESSOR, DEPARTMENT OF PHARMACEUTICAL HEALTH SERVICES RESEARCH
ASSOCIATE DIRECTOR, CENTER ON DRUGS AND PUBLIC POLICY

C. Daniel Mullins, PhD, a pharmacoeconomist and health policy analyst, focuses much of his research on health technology assessment and pharmacoeconomics, often evaluating the cost-effectiveness of new drugs. Mullins and his colleagues have received $2 million in grants and contracts from sources such as Pfizer and Sanofi-Aventis.

Mullins is principal investigator on an ongoing Sanofi-Aventis grant totaling $690,000 examining use and outcomes of new combination and “mono” chemotherapies in colorectal, breast, and prostate cancers.

“In recent years, newer chemotherapy agents that target advanced colorectal cancer have come to market,” says Mullins. “These new drugs have been studied in randomized, clinical trials, but there are limited ‘real world’ studies of the value of their clinical benefit and outcomes.”

Using the Surveillance, Epidemiology and End Results (SEER) database and Medicare claims, Mullins and Amy Davidoff, PhD; Ebere Onukwugha, PhD; and Ilene Zuckerman, PharmD, PhD, from the School of Pharmacy and Nadar Hanna, MD; Arif Hussain, MD; and Naimish Pandya, MD, from the University of Maryland School of Medicine want to determine if combination therapy compared to monotherapy is cost-effective and if utilization and outcomes vary by age or race.

For breast and lung cancers, their study examines how treatment and survival rates have changed for patients who receive different chemotherapy regimens.
Since the 2002 passage of the federal Best Pharmaceuticals for Children Act (BPCA), much of the research carried out by Julie Zito, PhD, has been dedicated to gathering and reporting epidemiologic data on pediatric medications as mandated by the act. Because most pediatric prescription drugs are prescribed “off-label,” i.e. based on adult studies, the National Institutes of Health seeks to prioritize additional studies based on community-based usage patterns. To provide such data, Zito has received contracts from Westat Inc., with this year’s support bringing the five-year collaboration to a total of $2.5 million.

“Our team produces a rank order of medications from data on 15 million youth,” says Zito. “Also, new methodology to measure population-based medication use has been created to link medications with diagnosis.”

Asthma prevalence among children rose significantly since the 1980s, with major impacts on quality of life and health care costs, but medication use was not well-documented.

“Our data show that in 2000-01, anti-inflammatories were dispensed to 58 percent of treated youth while bronchodilators were more common in Medicaid-insured than in commercially insured youth,” explains Zito. “Given the increasing importance of asthma treatment for children, our data are necessary to help prioritize the most commonly used medications so that additional research will assure benefits to the greatest number of children.”

### Research Projects

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<tr>
<th>Project Description</th>
<th>Contracting Party</th>
<th>Amount</th>
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<tbody>
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<td>VA-IPA: Computerized Decision</td>
<td>Baltimore VA Medical Center</td>
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<td>UM Multidisciplinary Clinical Research Career Development Program</td>
<td>National Center for Research Resources</td>
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<td>Early Education Program to Increase Live Kidney Donation</td>
<td>University of Maryland Surgical Associates</td>
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<td>Maryland CVD Men’s Health Promotion Program</td>
<td>CareFirst BlueCross BlueShield</td>
<td>$350,000</td>
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<td>Function Status and Stroke Risk in Elderly Medicare Diabetes Patients</td>
<td>Takeda Global Research</td>
<td>$230,000</td>
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<td>Creation of 2002, 2003 Institutional Drug Administration File and Prescription Medication Event</td>
<td>Westat Inc.</td>
<td>$84,448</td>
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WENDY KLEIN-SCHWARTZ  
ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE AND SCIENCE  
COORDINATOR OF RESEARCH AND EDUCATION, MARYLAND POISON CENTER

Wendy Klein-Schwartz, PharmD, MPH, received a $20,162 grant from the American College of Clinical Pharmacy to study an innovation in poisoning management. Activated charcoal has long been used effectively in managing overdoses by limiting gastrointestinal absorption of toxins, but its use in the home has been limited by palatability—it tastes bad.

Children, especially, have had difficulty with this poor palatability. A new, activated charcoal wafer with 2.4 grams of activated charcoal is being tested in human subjects to see how the adsorptive capacity of the cookie formulation compares with the standard liquid charcoal product.
With a five-year, $116,214 contract from the Denver Health and Hospital Authority, Bruce Anderson, PharmD, and Suzanne Doyon, MD, are participating in a multi-site program to better define the prescription drug abuse problem in the United States. “By documenting calls to the Maryland Poison Center related to drug abuse, specific substances are evaluated and summary information is sent to Denver and combined with data from other poison centers,” says Anderson.

Using funds from a Health Resources and Services Administration grant, the poison center also is involved in an innovative program that applies a suite of geographic information system (GIS) tools to poison center data to allow better information visualization on trends that might not be apparent by looking at columns of data, says Anderson.

<table>
<thead>
<tr>
<th>Project Investigator</th>
<th>Rank/Title</th>
<th>Project Title</th>
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<td>Surveillance of the RADARS Systems by Poison Control Centers - A Pilot Study</td>
<td>Denver Health and Hospital Authority</td>
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<td>Maryland Department of Health and Mental Hygiene</td>
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<td>Provision of Clinical Pharmacology</td>
<td>Task #6</td>
<td>Faculty Expertise on a Case-by-Case Basis and as Needed to Review Protocols and Projects</td>
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<td>Angelica Bivens</td>
<td>Public Education Coordinator</td>
<td>AAPCC Educator Award</td>
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<td>Nicole Brandt</td>
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<td>Medication Management in Baltimore City</td>
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<td>Baltimore City Commission on Aging and Retirement Education</td>
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<td>Wendy Klein-Schwartz</td>
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<td>Evaluation of a Novel Charcoal Cookie</td>
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<td>Danielle Lavallee</td>
<td>Clinical Assistant Professor</td>
<td>Study Evaluating the Incidence of Nephrogenic Systemic Fibrosis in Patients with Stages 3 to 5 Chronic Kidney Disease Undergoing MRI w/MultiHance</td>
<td>Bracco Diagnostics Inc.</td>
<td>$40,736</td>
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</table>

**NICOLE BRANDT**  
ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE AND SCIENCE

With a seven-year grant of $329,932 from the Baltimore City Commission on Aging and Retirement Education (CARE), Nicole Brandt, PharmD, CGP, BCPP, and colleagues, including pharmacy students, are working with groups of elderly patients to determine best management practices for their medications. Since 2001, and partnering with CARE, Brandt and colleagues have assisted thousands of senior citizens by providing one-on-one medication reviews, health screenings, educational programs, and Medicare Part D assistance.

“Part of the success of this program comes with the pharmacy students’ opportunity to obtain service learning for academic credit,” says Brandt. “Their outreach has also led to additional grants.”

**MONA TSOUKLERIS**  
ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE AND SCIENCE

Having worked collaboratively with researchers from the Johns Hopkins University School of Medicine to improve adherence and communication about asthma among minority family members, Mona Tsoukleris, PharmD, BCPS, has contracted with them on a National Institutes of Health grant to carry out a follow-up study.

“Our study evaluates whether a standardized caregiver and physician prompting intervention can improve guideline-based, preventive asthma care, including increased anti-inflammatory use and preventive doctor visits for children with frequent hospital visits,” says Tsoukleris.

The current four-year, $84,327 study builds on a recently completed study in which researchers learned that better parent and child asthma communication skills resulted in better medication compliance.
<table>
<thead>
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<th>Name</th>
<th>Title</th>
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<td>Patient Attitudes Toward a Weight Management Clinic in the Community Pharmacy</td>
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<td>Community Pharmacy Practice Residency Program</td>
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<td>Centralized Administration of Pharmacy Service Project</td>
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<td>Task Order #1 to the SNBL CPU Master Agreement</td>
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<td>Design and Implementation of Quality Improvement Projects for the Centers for Medicare and Medicaid Services</td>
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<td>Larry Augsburger</td>
<td>Professor</td>
<td>Application of Lactose to Formulations Intended for Direct Filling Into Hard-Shell Capsules</td>
<td>DMV International</td>
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<td>Opioids with Delta Antagonist and Mu Agonist Activity</td>
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<td>Reversing the Toxic Effects of Drugs of Abuse</td>
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<td>Synthesis and Evaluation of Sigma-Active Cocaine Antagonists</td>
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<td>Natalie Eddington</td>
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Department Total $6,152,017
Natalie D. Eddington  
Professor, Department of Pharmaceutical Sciences  
Dean, School of Pharmacy

With a five-year grant of $1,281,779 from the National Institute on Drug Abuse (NIDA), Natalie D. Eddington, PhD, and her research team are trying to identify a new pharmacotherapeutic agent to treat cocaine abuse and addiction. Their goal is to develop a substitute compound that would act on the same site of action in the brain for which cocaine has an affinity. The substitute agent will, ideally, not produce mood enhancement as with cocaine, but reduce craving. It also would have a high affinity for dopamine transport.

“The efficacy of the substitute therapeutic agent may be influenced by its permeability across the blood-brain barrier as well as its dopamine concentration profile,” explains Eddington.

The research group is working to identify candidate molecules and critical structural attributes for optimal drug delivery.

Andrew Coop  
Professor and Chair, Department of Pharmaceutical Sciences

With a five-year grant of $1,339,205 from NIDA, Andrew Coop, PhD, is researching the development of opioid pain relievers with fewer undesirable side effects, and particularly focusing on the propensity of morphine to cause severe constipation.

“Due to tolerance, ever increasing doses of morphine are required for the patient to remain pain-free, leading to increasing problems with constipation,” says Coop.

His research is focused on the design, synthesis, and pharmacological evaluation of novel agents to which analgesic tolerance does not develop, thereby negating the need for dose escalation.

<table>
<thead>
<tr>
<th>Project Title</th>
<th>PI Name</th>
<th>PI Title/Role</th>
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<td>Infrastructure Improvements to Support Pharmacy Education</td>
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<td>Evaluation of the Enhanced Oral, Nasal, and Pulmonary Drug Delivery Using AT1002</td>
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<td>In vivo Studies to Evaluate Drug Delivery Systems Developed by Pharmaceutics International for Selected Diseases such as Rheumatoid Arthritis and Cancer</td>
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<td>Acetaldehyde Effect on Gastrointestinal Membrane Proteins and Substrate Transport</td>
<td>Scott Fisher</td>
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<td>Biological Fate and Biocompatibility of Dendritic and Silica-Based Nanoconstructs</td>
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<td>Development of Tyrosine Phosphatase SHP-2 Inhibitors</td>
<td>Olgun Guvench</td>
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GERALD ROSEN
ISAAC E. EMERSON PROFESSOR, DEPARTMENT OF PHARMACEUTICAL SCIENCES

Gerald Rosen, PhD, JD, works with Electron Paramagnetic Resonance Imaging (EPRI), a minimally invasive technique to study changes in brain oxygen levels after administration of drugs of abuse.

“Changes in oxygen levels can have a significant and profound impact on homeostasis, potentially the cause of unusual behavioral changes observed in people who take methamphetamine chronically,” says Rosen.

Likewise stroke, the leading cause of long-term disability and a major cause of mortality in the elderly, results in diminished blood flow into discrete regions of the brain with the likelihood that oxygen levels in those affected regions are also diminished.

With a two-year, $315,810 grant from the National Institute on Drug Abuse (NIDA), Rosen has designed and synthesized minimally invasive probes for quantifying brain oxygen levels by EPRI as these compounds cross the blood-brain barrier where, after local metabolism, they are entrapped in brain tissue.

“Using EPRI and these probes, we have measured changes in oxygen levels in mice after a stroke when anatomical localization was determined by MRI,” he explains. “During methamphetamine abuse, brain oxygen levels are drastically altered, resulting in changes in neurotransmitter production and metabolism, essential for normal brain function.”

This approach has the potential to lead to new therapeutic interventions, and allow a noninvasive approach to monitoring disease progression.

JIA BEI WANG
PROFESSOR, DEPARTMENT OF PHARMACEUTICAL SCIENCES

Jia Bei Wang, PhD, examines the biological basis for drug addiction. With a five-year grant of $1,499,792 from NIDA, Wang is focused on delineating the actions of opioids at the cellular level and identifying new analgesic therapies. Her work focuses on the mechanisms of the mu opioid receptor (MOPr) phosphorylation and its effect on the function of MOPr.

“MOPr phosphorylation is a process that regulates the diverse effectors coupling mediated by activation of MOPr and contributes to the adaptive changes in the brain after exposure to opioids and other drugs of abuse,” she explains.

Studies are under way using animal models with an aim of understanding brain signals when MOPr phosphorylation has been disrupted, with the goal of developing new analgesics with lessened side effects.
<table>
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<th>Name</th>
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<td>Anjan Nan</td>
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<td>Vladimir Seregin</td>
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<td>Angela Wilks</td>
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<td>Heme Oxygenase-Structure, Function and Pathogenesis</td>
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<td>Angela Wilks</td>
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<td>The Rathmann Biotechnology Fellowship</td>
<td>Rathmann Family Foundation</td>
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<td>Y. Bruce Yu</td>
<td>Associate Professor</td>
<td>Engineering Peptide-Based Biomaterials</td>
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**Department Totals**

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Melissa Badowski, PharmD, BCPS  
**Assistant Professor, Department of Pharmacy Practice and Science**  
A graduate of Midwestern University’s Chicago College of Pharmacy, Badowski completed a pharmacy practice residency at the University of Maryland Medical Center (UMMC) and a pharmacotherapy residency at the School of Pharmacy. With expertise in internal medicine and HIV, she works on inpatient units at UMMC and has an outpatient HIV clinic at the Evelyn Jordan Center.

Lynette Bradley-Baker, PhD, RPh  
**Assistant Professor, Department of Pharmaceutical Health Services Research**  
Bradley-Baker’s research focuses on health literacy, cultural competency, and health care disparities, as well as the effect and role of the community pharmacy practice in patient medication adherence and health care outcomes. She is a dual graduate of the University of Maryland School of Pharmacy and is the current president of its Alumni Association. She is also a commissioner on the Maryland Board of Pharmacy and has more than 15 years experience in pharmacy management.

Jeffrey Gonzales, PharmD, BCPS  
**Assistant Professor, Department of Pharmacy Practice and Science**  
Gonzales is a critical care clinical specialist at UMMC and has a practice in its Medical Intensive Care Unit. He is co-course master for pharmacotherapy of the critically ill and teaches other critical care-related topics. Gonzales graduated from Idaho State University in 1996, completed a general residency at the University of Nebraska Medical Center, a critical care residency at Detroit Receiving Hospital-Detroit Medical Center, and a critical care fellowship at the University of Michigan.

Donard Donna Huynh, PharmD, BCPS, MA  
**Assistant Professor, Department of Pharmacy Practice and Science**  
With expertise in pediatric pharmacy, Huynh is a clinical specialist in pediatrics at UMMC and the Pediatric Ambulatory Clinic. She graduated from the School of Pharmacy in 2005 and completed a residency at Children’s National Medical Center and a fellowship in instructional design and evaluation at the University of Maryland. Her research interests include pediatric pharmacotherapy and instructional methods.

Kathryn “Katie” Kiser, PharmD, BCPS  
**Assistant Professor, Department of Pharmacy Practice and Science**  
Kiser is a clinical specialist in ambulatory care at the University Health Center Antithrombosis Clinic and in the Maryland P³ Program. Her teaching focus is in experiential courses. Her research area interests include anticoagulation, health literacy, development and evaluation of innovative services in ambulatory care, and measurement of clinical, economic, and humanistic outcomes of pharmacy-centered patient care programs. Kiser graduated from the University of North Carolina in 2006, completed a PGY1 residency in primary care at Moses Cone Health System in Greensboro, N.C., and a PGY2 specialty residency in ambulatory care at the University of North Carolina Hospitals in Chapel Hill.
Rohit Kolhatkar, PhD  
Research Assistant Professor, Department of Pharmaceutical Sciences  
Kolhatkar’s research focus is polymeric drug delivery. He is conducting research to understand how polymers of different architecture can be used for targeted drug delivery. Another area of interest is the synthesis of novel degradable polymers with inherent pharmacological activity and understanding the cellular trafficking of these polymers. He received a doctorate in medicinal chemistry from Wayne State University in Detroit and was a postdoctoral fellow in the University of Maryland School of Pharmacy’s Department of Pharmaceutical Sciences.

Yan Shu, MD, PhD  
Assistant Professor, Department of Pharmaceutical Sciences  
Shu’s research focus is drug transport mechanisms and metabolism in therapeutics, particularly drug transport mechanisms in cancer therapy and how different factors such as genetic polymorphisms and diseases affect drug transporters, metabolizing enzymes and therefore drug responses. He comes from Cedars-Sinai Medical Center in Los Angeles, where he was a faculty scientist in the Department of Neurosurgery. He graduated from the University of California, San Francisco in 2006.

Meghan Sullivan, PharmD  
Assistant Professor, Department of Pharmacy Practice and Science  
Sullivan is responsible for the oversight of the Pharmacy Practice Lab at the Universities at Shady Grove campus. She is the recipient of the inaugural American Foundation for Pharmaceutical Education-National Association of Chain Drug Stores Foundation Faculty Fellowship in Community Pharmacy Practice. Her research involves the development and implementation of a practice-based research network designed to conduct post-marketing surveillance within community pharmacies. She joined the School of Pharmacy after completing a community practice and ambulatory care residency at Ohio State University.

Kathryn Walker, PharmD, BCPS  
Assistant Professor, Department of Pharmacy Practice and Science  
Walker is a clinical specialist in palliative medicine at Union Memorial Hospital (UMH) and teaches pharmacotherapy topics at the School of Pharmacy. Before coming to the School, she developed a pharmacy pain consult service and helped to start palliative medicine service at UMH. Her research interests are focused on appropriate medication use at the end of life. She completed a specialty residency in palliative medicine at the School of Pharmacy.
Thank you to everyone—our alumni, faculty, staff, and friends—who has invested in the University of Maryland School of Pharmacy.

Our accomplishments last year were impressive. Some highlights from Fiscal Year 2008 include:

- a 22 percent growth in membership in the David Stewart Associates giving club, which recognizes donors who contribute $1,000 or more to the School of Pharmacy in a given fiscal year
- an 11 percent growth in the Annual Fund, which provides the critical unrestricted funds necessary to maintain the School’s standard of excellence
- the establishment of 10 endowed scholarships, several annual scholarships, and gifts to the faculty development fund, providing opportunities for our students and faculty to study, research, and discover
ANNUAL FUND

The Annual Fund plays a vital role in ensuring the strength of all of the School of Pharmacy programs, so each gift to the Annual Fund makes a difference. Annual Fund gifts form a pool of unrestricted funds that may be applied strategically wherever need and opportunity are greatest, providing for student scholarships, faculty research projects, capital projects and improvements, acquisition of new technologies, and community service programs that advance the School’s academic mission.

Regardless of your philanthropic interest or financial circumstances, an annual gift is an opportunity to make a meaningful contribution to the School. Consecutive annual giving offers a reliable resource and provides long-term financial security for the School of Pharmacy.

DAVID STEWART ASSOCIATES

In the mid-1980s, several dedicated alumni and friends established our premier giving society, the David Stewart Associates, to fund significant Schoolwide initiatives that would propel the University of Maryland School of Pharmacy nationally as a leader in pharmacy education. We honor David Stewart, America’s first professor of pharmacy and founder of the University of Maryland School of Pharmacy, who symbolized a passion for excellence and commitment to pharmacy education.

Through individual gifts and pledges of $1,000 or more, this core of donors has grown to create a solid base of private support for the School’s efforts to advance pharmaceutical education and science. To join this prestigious group of alumni and friends, or for information on giving to the School, please contact Janice Batzold, director of special gifts and programs, at 410-706-1711.

LEGACY COUNCIL

In our continued efforts to recognize donors, the Legacy Council of the University of Maryland, Baltimore has been established to acknowledge those who have made generous contributions to the School of Pharmacy through their estate plans.

Anyone who has made such a gift is eligible for membership in the Legacy Council, which is chaired by Clayton Warrington, BSP ’58. Provide documentation of the gift to the Office of Development (www.umaryland.edu/planned giving) or provide a copy of the relevant document in which the School is named as a beneficiary. For additional information about membership in the Legacy Council and estate planning, please contact Michele Ewing, executive director of development and alumni relations, at 410-706-3816.

CORPORATE PARTNERS IN PHARMACY EDUCATION

The Corporate Partners in Pharmacy Education Program was designed to consolidate the School’s corporate donors into an educational advisory group, focus their giving, and provide prominent recognition for their support.

Contributions to this program support various events at the School—the honors convocation, white coat ceremony, career fair, leadership retreat, and graduation banquet—and provide much-needed support for student scholarships. This was the final year of the program.
The University of Maryland School of Pharmacy appreciates the financial support of the following individuals and organizations:

Giving by Individuals

David Stewart Associates
$100,000+
Anonymous
John H. Balch, BSP ‘68~
Sally Van Doren, PharmD ‘85~

$25,000 - $99,999
Anonymous
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Dorothy Lykos
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Judy Mintz
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Elizabeth Warrington
Bruce Yaffe
Debbi Yaffe

$1,000 - $1,999
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Katherine P. Beardsley
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James P. Cragg Jr., BSP ’43+
Leonard J. DeMino+
Michele Y. Ewing
Russell B. Fair
Donald O. Fedder, BSP ’50+
Michaelene R. Fedder+
J. Philip Fink, BSP ’79*
Mark G. Fletcher, BSP ’78, MS ’81, PhD ’83

“Inherent in our education and training is a responsibility to take our turn as mentors and benefactors to those who will succeed us. While we can never hope to satisfy the debt we owe to those who came before us, we can celebrate and honor their involvement by becoming involved ourselves and taking our part in the cycle of life. I became a charter member of the David Stewart Associates to accept my responsibility, to take my turn to benefit my successors, and to honor those who inspired, taught, and mentored me.”

— David M. Russo, BSP ’79
Recently, I was fortunate to meet and thank the two members of the Banks family who established the David E. Banks Scholarship. I shared with them that only moments before receiving the news of my scholarship award, I was totally preoccupied with worry about my finances. After learning of the scholarship, a huge weight was lifted. I am the first member of my family to attend college and will never take for granted what my family sacrificed for me to pursue my dream.

At 16, to help support myself and save for college, I began working in a community pharmacy. It was a great environment. Almost immediately I knew I wanted to become a community pharmacist and the only program I wanted to attend was the University of Maryland School of Pharmacy.

Today, I continue to work part time in a community pharmacy, and during a conversation with Banks family members, we realized that I work in the exact pharmacy where the late Mr. Banks practiced for 20 years. Furthermore, he and I share the same philosophy of and passion for community pharmacy. As the first recipient of this new scholarship, I can’t thank the Banks family enough for their generosity. I am a firm believer in “giving back” and will return their favor by supporting the School in the future.
Angela Wilks  
Thomas G. Williams, BSP ‘80, PharmD ‘99  
Thomas G. Williams Jr., PharmD ‘06  
Leonard Winkelman+  
Phyllis Brill Wingrat, BSP ‘50

**Dean’s Club**

**$500 - $999**

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Jay R. Brinsfield, BSP ‘58~  
Laci L. Brown, PharmD ‘01~  
Albert W. Brzezcko, PhD ‘90  
Laurie J. Buonaccorsi, PharmD ‘99  
Mary W. Connelly, BSP ‘51*  
Nicholas Cornia, BSP ‘92~  
Alison W. Davitt  
Dennis L. Eaton, BSP ‘80*  
Robert R. Kantorski, BSP ‘62  
Stephen C. Kloch, BSP ‘80*  
Samuel Lichter, BSP ‘60*  
Timir J. Patel, BSP ‘86*  
James E. Polli  
Melvin N. Rubin, BSP ‘55  
Howard R. Schaff, BSP ‘56  
Linda Simoni-Wastila  
Bruce P. Smith, PhD ‘91  
Irving E. Swartz, BSP ‘56  
George W. Swope Jr., BSP ‘70~  
Papatyanka Tankut, BSP ‘94  
Christopher E. Thomas, BSP ‘86, PharmD ‘89  
Charles H. Tregoe, BSP ‘59*  
Donna E. VanWiej, BSP ‘87  
Wayne D. VanWie, BSP ‘88  
Terry F. Wells, PharmD ‘00~  
Ilene H. Zuckerman, BSP ‘81, PharmD ‘83

**Apothecary Club**

**$250 - $499**

Clarence L. Anstine, BSP ‘58  
Raymond D. Bahr, BSP ‘57  
Sherry N. Berlin, BSP ‘74~  
Patrick Berryman  
John E. Braaten, BSP ‘79*  
Thomas S. Brenner, BSP ‘72*  
Keith E. Brome, RPh, BSP ‘92*  
Alvin H. Bunwell, PharmD ‘99~  
Jared S. Calish, PharmD ‘01  
Karen E. Calish, PharmD ‘01  
Suzanne M. Cauffield, BSP ‘89  
Terry L. Davis, BSP ‘83, PharmD ‘98*  
Rebecca J. De Castro, BSP ‘95  
Mary DeLuca, BSP ‘79~  
Barbara B. Doegen, PharmD ‘99~  
Margaret Dorn-Muller, BSP ‘86~  
Ann O. Dukes, BSP ‘93  
Julian M. Friedman, BSP ‘56*  
Timothy D. Gladwell, PharmD ‘96  
Frank R. Henderson Jr., BSP ‘88  
Gerard A. Herpel, BSP ‘82  
Stephen L. Hilbert, BSP ‘71, MS ‘75  
Forest S. Howell, BSP ‘87~  
Charles D. Imwold, BSP ‘77  
John J. Imwold Jr., BSP ‘84  
Kenneth W. Kenyon Jr., PharmD ‘01  
Ronald P. Kleinman, BSP ‘82~  
Lisa T. Kloch, BSP ‘80*  
Lawrence J. Kotev, PharmD ‘03  
Mark H. Lapouraille, BSP ‘84*  
Lisa C. LeGette, BSP ‘92~  
Timothy P. Lewis, BSP ‘84  
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BRIAN ELLSWORTH – CLASS OF 2010
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From an early age, my family instilled in me the value of education. I first learned about the pharmacy profession from a college English class assignment to research and write a paper on job opportunities for chemical engineering majors.

While still in college, I worked part time in a hospital pharmacy and later in a community pharmacy. Now, as a third-year student, I realize that there are many career paths one can choose in this profession. My goal while in school is to explore and experience all that I can to help me make the best decision about my future pursuits in pharmacy.

The Doris Nuessle McCaig Scholarship allows me to do just that. Some of the money will be used to cover travel expenses to an Academy of Managed Care Pharmacy conference, where I hope to enter a national competition. It’s a chance for me to share ideas and learn more about managed care as a career path. Without the scholarship, finding the money for travel to this prestigious event would be difficult or impossible. I want scholarship supporters to know the great impact they have on the lives of others.

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NOUR OBEIDAT – CLASS OF 2008
RECIPIENT OF THE DR. ARTHUR SCHWARTZ MEMORIAL SCHOLARSHIP AWARD

I received my PhD in pharmaceutical health services research from the School of Pharmacy in 2008 and remained at the University of Maryland to complete a postdoctoral fellowship within the Department of Pharmaceutical Health Services Research.

I had chosen the University of Maryland to pursue my doctoral degree because of its reputation as a nationally recognized academic institute where superior teaching and research are the norm. My experience as a graduate research assistant at the University has been critical in developing my research skills and career.

After completing my training at the University of Maryland, I will be returning to my native city of Amman, Jordan, where I will establish a center for health economics and outcome research within the King Hussein Institute for Biotechnology and Cancer. This is a tremendous new challenge, but I realize that I’m well-trained and ready to meet it.

In 2008, I was a recipient of the Dr. Arthur Schwartz Memorial Scholarship Award. The award provided me with the support I needed to pursue my dissertation research goals. These involved studying population trends and outcomes of chemotherapy use in elderly patients with late-stage colorectal cancer. I continue to conduct cancer-related health services research in elderly populations, while expanding my focus to other types of cancer.
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The training I have received at the School of Pharmacy has given me a broad, collaborative academic foundation, exposing me to the different aspects of pharmaceutical science so that I have a clearer understanding of what is involved in the drug development process. My professors are dedicated to helping students succeed with the expectation that one day we will become colleagues.

During my graduate years, I was a peer mentor in the University’s PROMISE Program for underrepresented minorities who are studying for their PhDs in the fields of science, technology, engineering or mathematics. As a mentor, I’ve tried to help incoming graduate students successfully manage their graduate careers. I intend to pursue a post-doctoral position in pharmaceutical sciences and then attend medical school.
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